Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-11-30-69** **Date: 09-11-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains to road opp to Elumandamma Temple in Kempapura Gramatana in Ward No.07 Byatarayanapura.
Agency	:	Sri. N Lokanathreddy No:5, 1st main road,7th B Cross,Kaveri nagara, A Block, Kavalbyrasandra Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/163/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-11-18
Sample ID No	:	2018-11-30-69 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	07-11-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.05	_
2	Finess by Air permeablity method (m^2/kg,Min)	298.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-11-30-69** **Date: 14-11-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains to road opp to Elumandamma Temple in Kempapura Gramatana in Ward No.07 Byatarayanapura.
Agency	:	Sri. N Lokanathreddy No:5, 1st main road,7th B Cross,Kaveri nagara, A Block, Kavalbyrasandra Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/163/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-11-18
Sample ID No	:	2018-11-30-69 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	07-11-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2

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Authorized Signatory
Technical Manager

CIVIL PRO Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-11-30-69** **Date: 09-11-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains to road opp to Elumandamma Temple in Kempapura Gramatana in Ward No.07 Byatarayanapura.
Agency	:	Sri. N Lokanathreddy No:5, 1st main road,7th B Cross,Kaveri nagara, A Block, Kavalbyrasandra Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/163/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	06-11-18
Sample ID No	:	2018-11-30-69 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-11-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	385	385	2.6	97.4	90-100
3	20 mm	7048	7433	49.6	50.4	30-70
4	10 mm	4396	11829	78.9	21.1	10-35
5	4.75 mm	2845	14674	97.8	2.2	0-5
6	Pan	326	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-11-30-69** **Date: 09-11-18**

Sample ID No : 2018-11-30-69 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**13.7**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.9**	
3	Specific Gravity	**2.64**	_
4	Bulk Density(Loose) (Kg/l)	**1.42**	_
5	Bulk Density(Compacted) (Kg/l)	**1.48**	_
6	Water Absorption(%)	**0.23**	_

Note:
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AE(Lol)

Assistant Executive Engineer
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Bangalore.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-11-30-69** **Date: 08-11-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains to road opp to Elumandamma Temple in Kempapura Gramatana in Ward No.07 Byatarayanapura.
Agency	:	Sri. N Lokanathreddy No:5, 1st main road,7th B Cross,Kaveri nagara, A Block, Kavalbyrasandra Bangalore-560032.
Customer Reference	:	BBMP/EE/BTP/WO/163/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-11-18
Sample ID No	:	2018-11-30-69 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-11-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	318	318	6.4	93.6	90-100
3	10 mm	2852	3170	63.4	36.6	25-55
4	4.75 mm	1622	4792	95.8	4.2	0-10
5	Pan	208	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-11-30-69** **Date: 08-11-18**

Sample ID No : 2018-11-30-69 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.7	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.45	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.25	–
7	Aggregate crushing Value(%)	23.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.4	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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AE (Mgt)

Assistant Executive Engineer.
Kodigehalli Sub Division,
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Bangalore.

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Authorized Signatory
Technical Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-11-30-69** **Date: 08-11-18**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains to road opp to Elumandamma Temple in Kempapura Gramatana in Ward No.07 Byatarayanapura.

Agency : Sri. N Lokanathreddy No:5, 1st main road,7th B Cross,Kaveri nagara, A Block, Kavalbyrasandra Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/163/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-11-18

Sample ID No : 2018-11-30-69 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 06-11-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	57	57	5.7	94.3	90-100	90-100	90-100	95-100
3	2.36 mm	129	186	18.6	81.4	60-95	75-100	85-100	95-100
4	1.18 mm	219	405	40.5	59.5	30-70	55-90	75-100	90-100
5	600 micron	203	608	60.8	39.2	15-34	35-59	60-79	80-100
6	300 micron	179	787	78.7	21.3	5-20	8-30	12-40	15-50
7	150 micron	149	936	93.6	6.4	0-10	0-10	0-10	0-15
8	Pan	64	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-11-30-69** **Date: 08-11-18**

Sample ID No : 2018-11-30-69 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.48	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	5.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer.
Kodigehalli Sub Division,
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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2018-11-30-69** **Date: 10-11-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains to road opp to Elumandamma Temple in Kempapura Gramatana in Ward No.07 Byatarayanapura.
Agency	:	Sri. N Lokanathreddy No:5, 1st main road,7th B Cross,Kaveri nagara, A Block, Kavalbyrasandra Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/163/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-11-18
Sample ID No	:	2018-11-30-69 /07
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	07-11-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	202	203	16484	34.140	2071.0	2089.4	Not less than 1800Kg/m^3
2	401	201	201	16201	34.230	2112.9		
3	402	202	202	16403	34.190	2084.3		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	35.890	34.250	4.79	4.42	Shall not be more than 10% by mass
2	35.750	34.390	3.95		
3	35.830	34.280	4.52		

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Lab ID : **CP-2018-11-30-69** **Date: 10-11-18**

Sample ID No : **2018-11-30-69 /07**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	202	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	201	203	
3	403	203	201	
4	402	201	203	
5	401	203	201	
6	402	202	199	
7	403	201	202	
8	401	203	201	
9	403	201	203	
10	401	203	201	
11	402	201	203	
12	403	203	201	
13	401	201	200	
14	402	203	201	
15	401	199	203	
16	403	202	201	
17	401	201	203	
18	402	203	201	
19	403	201	203	
20	404	202	201	
Average of 20	**402**	**202**	**202**	

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Lab ID : **CP-2018-11-30-69** **Date: 10-11-18**

Sample ID No : 2018-11-30-69 /07

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	202	81204	408.9	5.0	5.4
2	401	201	80601	422.9	5.2	
3	403	203	81809	412.9	5.0	
4	402	201	80802	444.9	5.5	
5	401	203	81403	452.6	5.6	
6	402	202	81204	474.6	5.8	
7	403	201	81003	455.8	5.6	
8	401	203	81403	442.6	5.4	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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AE(Ret)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, BBMP
Bangalore.

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-11-30-69** **Date: 20/11/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains to road opp to Elumandamma Temple in Kempapura Gramatana in Ward No.07 Byatarayanapura.

Agency : Sri. N Lokanathreddy No:5, 1st main road,7th B Cross,Kaveri nagara, A Block, Kavalbyrasandra Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/163/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-11-18

Sample ID No : 2018-11-30-69 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	13/11/2018	20/11/2018	151.08 X 151.45 X 149.65	22882	**8.321**	283.0	12.4	12.3
2	PCC	M15	13/11/2018	20/11/2018	150.82 X 149.75 X 149.71	22585	**8.452**	274.1	12.1	
3	PCC	M15	13/11/2018	20/11/2018	150.14 X 149.99 X 149.56	22520	**8.362**	278.8	12.4	

Note:

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Mrhplf. N.D
AE(Ly)

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-11-30-69** **Date: 20/11/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains to road opp to Elumandamma Temple in Kempapura Gramatana in Ward No.07 Byatarayanapura.

Agency : Sri. N Lokanathreddy No:5, 1st main road,7th B Cross,Kaveri nagara, A Block, Kavalbyrasandra Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/163/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-11-18

Sample ID No : 2018-11-30-69 /03

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	13/11/2018	20/11/2018	150.36 X 150.51 X 150.24	22630	**8.321**	293.4	13.0	12.8
2	PCC	M15	13/11/2018	20/11/2018	151.96 X 149.44 X 149.78	22708	**8.452**	282.2	12.4	
3	PCC	M15	13/11/2018	20/11/2018	150.56 X 149.20 X 150.63	22463	**8.362**	291.0	13.0	

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-11-30-69** **Date: 23/11/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains to road opp to Elumandamma Temple in Kempapura Gramatana in Ward No.07 Byatarayanapura.

Agency : Sri. N Lokanathreddy No:5, 1st main road,7th B Cross,Kaveri nagara, A Block, Kavalbyrasandra Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/163/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-11-18

Sample ID No : 2018-11-30-69 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	16/11/2018	23/11/2018	151.10 X 149.72 X 149.40	22624	**8.451**	412.5	18.2	18.4
2	Drain Concrete	M20	16/11/2018	23/11/2018	149.35 X 149.31 X 150.94	22301	**8.236**	404.4	18.1	
3	Drain Concrete	M20	16/11/2018	23/11/2018	149.32 X 149.01 X 150.09	22251	**8.261**	421.7	19.0	

Note:

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Samples will be disposed after 90 days from the date of issue of test certificate

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.,
Bangalore.

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-11-30-69** **Date: 23/11/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains to road opp to Elumandamma Temple in Kempapura Gramatana in Ward No.07 Byatarayanapura.

Agency : Sri. N Lokanathreddy No:5, 1st main road,7th B Cross,Kaveri nagara, A Block, Kavalbyrasandra Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/163/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-11-18

Sample ID No : 2018-11-30-69 /03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	16/11/2018	23/11/2018	151.77 X 151.06 X 151.85	22926	**8.451**	428.6	18.7	18.5
2	Drain Concrete	M20	16/11/2018	23/11/2018	150.01 X 151.29 X 150.13	22695	**8.236**	421.4	18.6	
3	Drain Concrete	M20	16/11/2018	23/11/2018	149.72 X 151.47 X 149.10	22677	**8.261**	414.7	18.3	

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.,
Bangalore.

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R RUDRAPRASAD
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-11-30-69** **Date: 23/11/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains to road opp to Elumandamma Temple in Kempapura Gramatana in Ward No.07 Byatarayanapura.

Agency : Sri. N Lokanathreddy No:5, 1st main road,7th B Cross,Kaveri nagara, A Block, Kavalbyrasandra Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/163/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-11-18

Sample ID No : 2018-11-30-69 /05

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	16/11/2018	23/11/2018	149.77 X 149.06 X 150.31	22325	**8.451**	419.5	18.8	18.4
2	Drain Concrete	M20	16/11/2018	23/11/2018	151.11 X 149.49 X 149.46	22590	**8.236**	415.3	18.4	
3	Drain Concrete	M20	16/11/2018	23/11/2018	150.25 X 149.22 X 151.75	22420	**8.261**	406.6	18.1	

Note:

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AE(L91)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P,
Bangalore.

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-11-30-69** **Date: 26/11/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains to road opp to Elumandamma Temple in Kempapura Gramatana in Ward No.07 Byatarayanapura.

Agency : Sri. N Lokanathreddy No:5, 1st main road,7th B Cross,Kaveri nagara, A Block, Kavalbyrasandra Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/163/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-11-18

Sample ID No : 2018-11-30-69 /03

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	19/11/2018	26/11/2018	151.74 X 149.81 X 151.28	22732	**8.451**	421.6	18.5	18.4
2	Cement Concrete Pavement	M20	19/11/2018	26/11/2018	150.90 X 150.88 X 150.11	22768	**8.236**	421.6	18.5	
3	Cement Concrete Pavement	M20	19/11/2018	26/11/2018	150.38 X 150.94 X 150.84	22698	**8.261**	409.8	18.1	

Note:

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AE(Ngl)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-11-30-69** **Date: 26/11/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains to road opp to Elumandamma Temple in Kempapura Gramatana in Ward No.07 Byatarayanapura.

Agency : Sri. N Lokanathreddy No:5, 1st main road,7th B Cross,Kaveri nagara, A Block, Kavalbyrasandra Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/163/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-11-18

Sample ID No : 2018-11-30-69 /05

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	19/11/2018	26/11/2018	149.60 X 149.51 X 149.78	22366	**8.451**	403.8	18.1	18.3
2	Cement Concrete Pavement	M20	19/11/2018	26/11/2018	150.93 X 149.91 X 151.95	22625	**8.236**	416.7	18.4	
3	Cement Concrete Pavement	M20	19/11/2018	26/11/2018	151.65 X 151.58 X 149.16	22986	**8.261**	421.6	18.3	

Note:
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Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.,
Bangalore.

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-11-30-69** **Date: 26/11/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains to road opp to Elumandamma Temple in Kempapura Gramatana in Ward No.07 Byatarayanapura.

Agency : Sri. N Lokanathreddy No:5, 1st main road,7th B Cross,Kaveri nagara, A Block, Kavalbyrasandra Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/163/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-11-18

Sample ID No : 2018-11-30-69 /07

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	19/11/2018	26/11/2018	152.00 X 150.80 X 149.69	22921	**8.451**	433.7	18.9	18.6
2	Cement Concrete Pavement	M20	19/11/2018	26/11/2018	150.77 X 150.21 X 151.16	22647	**8.236**	407.8	18.0	
3	Cement Concrete Pavement	M20	19/11/2018	26/11/2018	150.53 X 149.98 X 151.34	22577	**8.261**	427.6	18.9	

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Asstpll. N.D
AE(L7)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-11-30-69** **Date: 26/11/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains to road opp to Elumandamma Temple in Kempapura Gramatana in Ward No.07 Byatarayanapura.

Agency : Sri. N Lokanathreddy No:5, 1st main road,7th B Cross,Kaveri nagara, A Block, Kavalbyrasandra Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/163/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-11-18

Sample ID No : 2018-11-30-69 /09

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	19/11/2018	26/11/2018	151.48 X 151.87 X 151.83	23006	**8.451**	425.4	18.5	18.6
2	Cement Concrete Pavement	M20	19/11/2018	26/11/2018	150.47 X 149.48 X 149.51	22492	**8.236**	413.0	18.4	
3	Cement Concrete Pavement	M20	19/11/2018	26/11/2018	151.79 X 151.40 X 151.05	22982	**8.261**	433.2	18.8	

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CIVIL PRO BANGALORE Sig..... Date.....

R RUDRAPRASAD
Authorized Signatory
Technical Manager

M.N.D
AE(LT)

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-11-30-69** **Date: 26/11/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains to road opp to Elumandamma Temple in Kempapura Gramatana in Ward No.07 Byatarayanapura.

Agency : Sri. N Lokanathreddy No:5, 1st main road,7th B Cross,Kaveri nagara, A Block, Kavalbyrasandra Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/163/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-11-18

Sample ID No : 2018-11-30-69 /11

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	19/11/2018	26/11/2018	150.46 X 151.71 X 151.17	22826	**8.451**	419.1	18.4	18.3
2	Cement Concrete Pavement	M20	19/11/2018	26/11/2018	151.39 X 150.87 X 150.61	22840	**8.236**	414.9	18.2	
3	Cement Concrete Pavement	M20	19/11/2018	26/11/2018	149.00 X 149.78 X 151.74	22318	**8.261**	411.9	18.5	

Note:

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Authorized Signatory
Technical Manager

AE(1st)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-11-30-69** **Date: 08-11-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains to road opp to Elumandamma Temple in Kempapura Gramatana in Ward No.07 Byatarayanapura.
Agency	:	Sri. N Lokanathreddy No:5, 1st main road,7th B Cross,Kaveri nagara, A Block, Kavalbyrasandra Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/163/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-11-18
Sample ID No	:	2018-11-30-69 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	07-11-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	512	653	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.886	544	667	20.0%	Satisfactory	Satisfactory

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

AE(W91)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2018-11-30-69** **Date: 10-11-18**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains to road opp to Elumandamma Temple in Kempapura Gramatana in Ward No.07 Byatarayanapura.

Agency : Sri. N Lokanathreddy No:5, 1st main road,7th B Cross,Kaveri nagara, A Block, Kavalbyrasandra Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/163/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-11-18

Sample ID No : 2018-11-30-69 /06

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 06/11/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.48	100.51	1.379	4474	83.9	18.8	17.4	21.8
2	Cover Slab-2	75.51	100.49	1.386	4477	82.4	18.4	17.1	21.4
3	Cover Slab-3	75.49	100.52	1.379	4475	85.7	19.2	17.8	22.3

Note:

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

AE(Ltd)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-11-30-69** **Date: 10-11-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains to road opp to Elumandamma Temple in Kempapura Gramatana in Ward No.07 Byatarayanapura.
Agency	:	Sri. N Lokanathreddy No:5, 1st main road,7th B Cross,Kaveri nagara, A Block, Kavalbyrasandra Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/163/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-11-18
Sample ID No	:	2018-11-30-69 /06
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	06/11/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	100.51	200.48	1.116	7933	80.9	10.2	9.5	11.9
2	Cover Slab-2	100.49	200.52	1.122	7930	82.3	10.4	9.7	12.1
3	Cover Slab-3	100.50	200.51	1.118	7931	81.5	10.3	9.6	11.9

Note:

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL Pro Sig..... Date..... BANGALORE

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

****End of Report****

TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2018-11-30-69** **Date: 08-11-18**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains to road opp to Elumandamma Temple in Kempapura Gramatana in Ward No.07 Byatarayanapura.

Agency : Sri. N Lokanathreddy No:5, 1st main road,7th B Cross,Kaveri nagara, A Block, Kavalbyrasandra Bangalore-560032.

Customer Reference : BBMP/EE/BTP/WO/163/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-11-18

Sample ID No : 2018-11-30-69/01

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 06-11-18

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

Note:-

The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL PRO Sig..... Date..... BANGALORE

A.E(L+T)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-11-30-69** **Date: 08-11-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains to road opp to Elumandamma Temple in Kempapura Gramatana in Ward No.07 Byatarayanapura.
Agency	:	Sri. N Lokanathreddy No:5, 1st main road,7th B Cross,Kaveri nagara, A Block, Kavalbyrasandra Bangalore-560032.
Customer Reference	:	BBMP/EE/BTP/WO/163/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-11-18
Sample ID No	:	2018-11-30-69/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	06-11-18

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.8	225.7
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.5
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

Note:-
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FOR CIVIL Pro.
R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL PRO Sig..... Date..... BANGALORE

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-11-30-69** **Date: 08-11-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains to road opp to Elumandamma Temple in Kempapura Gramatana in Ward No.07 Byatarayanapura.
Agency	:	Sri. N Lokanathreddy No:5, 1st main road,7th B Cross,Kaveri nagara, A Block, Kavalbyrasandra Bangalore-560032.
Customer Reference	:	BBMP/EE/BTP/WO/163/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-11-18
Sample ID No	:	2018-11-30-69/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	06-11-18

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.7%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.4%	
Combined Flakiness and Elongation Index for WMM	25.1%	

Note:-
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FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer,
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL PRO Sig..... Date..... BANGALORE

End of Report

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